

Work Order ID 127924

December-17-14 2:01:11 PM

127924

Page 1

Item ID: D2646 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Aft Cap
 Start Date: 12/17/14 Start Qty: 25.00 ***25*** Cust Item ID:
 Required Date: 12/17/14 Req'd Qty: 25.00 ***25*** Customer:
 Reference:

Approvals: Process Plan: MCS Date: 14-12-23 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D2646	Rev C								
100	PURCHASING	0.00							
100									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: <u>26947</u> 1-Spin as per Dwg D2646 2-Material release note required								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
110									
Packaging	Memo	0.00							
Packaging	Ensure Material Release Note is attached								
120	QC6- Inspect dimensions to drawing	0.00							
120									
QC	Memo	0.00							
Quality Control									

CD 15/01/06 25

25x SP 15-02-2

(25)

DAS
38
9-80

FEB 02 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
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Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge	☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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December-17-14 2:01:11 PM

127924

Page 2

Item ID: D2646 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Aft Cap
 Start Date: 12/17/14 Start Qty: 25.00 ***25*** Cust Item ID:
 Required Date: 12/17/14 Req'd Qty: 25.00 ***25*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00							
130	Small Fab					<u>25X</u>	<u>DAS</u> <u>28</u> <u>9-89</u>		FEB 03 2015
Small Fab	Memo	0.00							
Small Fab	1-Drill using DT8026 as per Dwg D2646.2-Open holes to .297 as per Dwg D2646.3-Deburr								
140		0.00							
140	QC5- Inspect part completeness to step on W/O	0.00							
QC	Memo	0.00							DAS 38 9-89
Quality Control									FEB 05 2015
150		0.00							
150	Chemical Conversion Coat per QSI005 4.1	0.00							
HandFinish	Memo	0.00							
Hand Finishing									

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
		☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge
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December-17-14 2:01:11 PM

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Page 3

Item ID: D2646 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Aft Cap
 Start Date: 12/17/14 Start Qty: 25.00 ***25*** Cust Item ID:
 Required Date: 12/17/14 Req'd Qty: 25.00 ***25*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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160	White Gloss(Ref:4.3.5.1) per OSI005 4.3-Alum	0.00							
160	<i>M 127808</i>								<i>25 d 15-2-11</i>
Powdercoat	Memo	0.00							<i>25 d 15-2-11</i>

Powder Coating
 START TIME: *9:00* FINISH TIME: *9:30* OVEN TEMPERATURE:

170	QC3- Inspect Part Finish	0.00							
170									<i>25 d 15-2-11</i>
QC	Memo	0.00							<i>25 d 15-2-11</i>
Quality Control									<i>25 d 15-2-11</i>

180	Small Fab	0.00							
180									<i>125 d 15-2-11</i>
Small Fab	Memo	0.00							<i>125 d 15-2-11</i>
Small Fab	Install inserts as per Dwg D2646								<i>125 d 15-2-11</i>

DAS
15
9-89

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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Work Order ID 127924

127924

December-17-14 2:01:11 PM

Page 4

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Revision ID: Stop ***NS2***
Item Name: Aft Cap
Start Date: 12/17/14 Start Qty: 25.00 ***25*** Cust Item ID:
Required Date: 12/17/14 Req'd Qty: 25.00 ***25*** Customer:
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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
190 *190* QC Quality Control	QC5- Inspect part completeness to step on W/O Memo	0.00 0.00							
						25	0	15-2-11	BR
200 *200* Packaging Packaging	Identify as per dwg & Stock Location: <u>FP-001</u> Memo	0.00 0.00							
						25	0	15/02/11	
210 *210* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.00							
						25	0	15-02-12	

15-2-11

DQA: _____ Date: _____



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FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
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Picklist Print

December-17-14 2:01:11 PM

Page 1

Work Order ID: 127924

127924

Parent Item: D2646

D2646

Parent Item Name: Aft Cap

Start Date: 12/17/14

Required Date: 12/17/14

Start Qty: 25.00

Required Qty: 25.00

Comments:

IPP: G05.08.22Hole size revised in Step 5KJ/JLM

IPP Rev:H Changed Inserts 07-02-19 JLM

IPP rev I changed inserts 07.06.11 EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

ALS7-1032-130

AEIS8-1032-130

Purchased

No

110

Each

6,860.000

2

50

AI S7-1032-130

*

AL64-1032-130

all 15/02/14

Rivnut

Location

Loc Qty

Loc Code

CCK003

6760

M128649

6760

FG

100

121444

100

D2646P

Purchased

No

180

Each

0.0000

1

25

D2646P

25 x 15-02-2

Aft Cap

SP 15-02-12

DQA: _____ Date: _____



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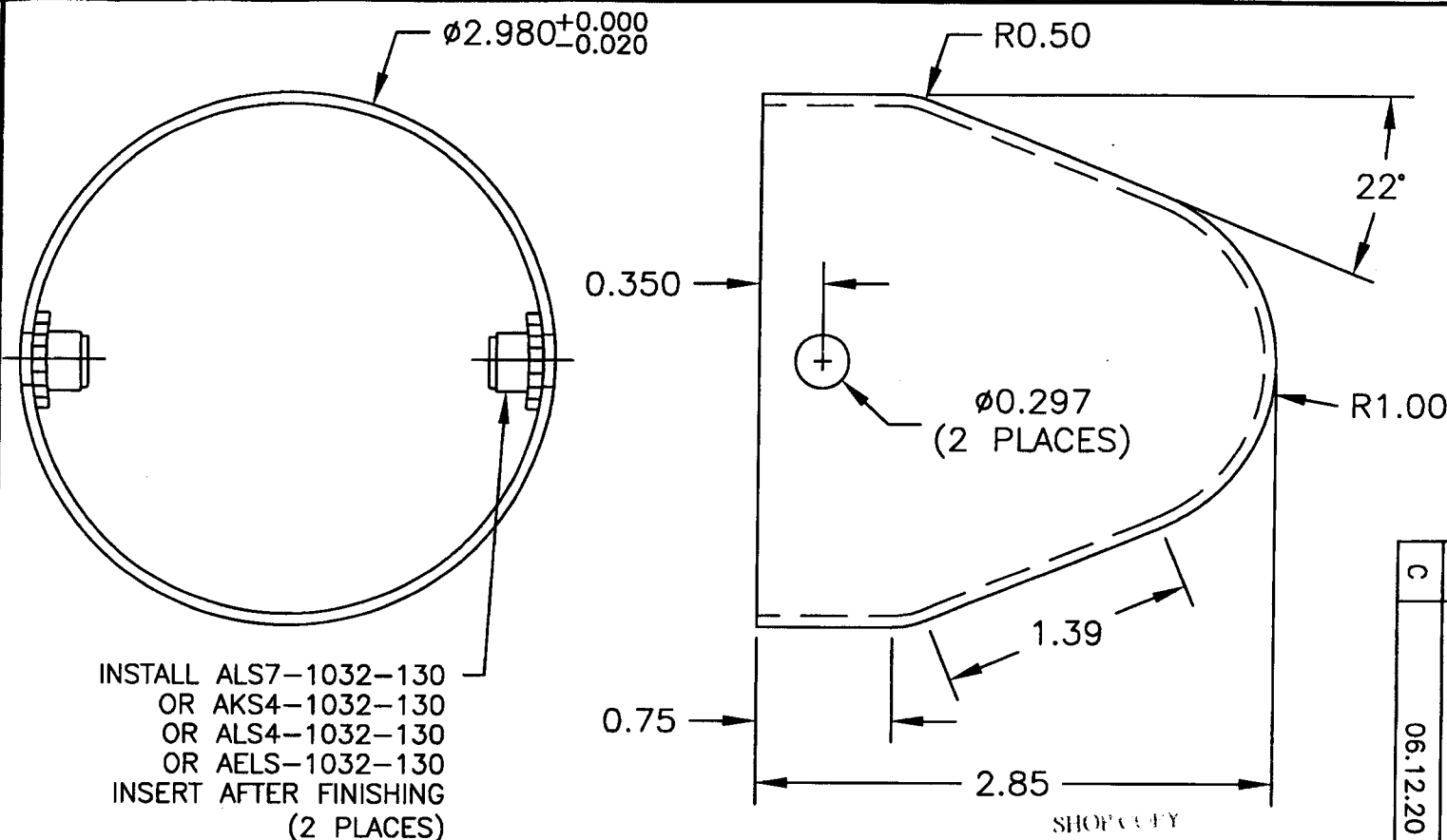
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--	--	---	--

DART

DESIGN	DS	DRAWN BY	PH	DART AEROSPACE USA, INC.
CHECKED	<i>[Signature]</i>	APPROVED	<i>[Signature]</i>	PORT HADLOCK, WA
DATE	06.12.20	DRAWING NO.	D2646	REV. C
		TITLE	AFT CAP	SHEET 1 OF 1
A	97.03.25	NEW ISSUE		SCALE 1:1
B	05.04.01	CHANGE TO CLOSED INSERTS		
C	06.12.20	CHANGE TO OPEN ENDED INSERTS		



SHOP COPY
RETURNS TO
EXHIBIT ROOM
UNCONTROLLED COPY
SUBJECT TO AGREEMENT
WITH THE SOURCE
WORK ORDER
NO. 127924
14-12-23

RELEASED
07.02.12

D2646 AFT CAP

- 1) MATERIAL: ALUMINUM 1100-O 0.063 THICK (QQ-A-250/1)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT ASSEMBLY WHITE (4.3.5.1) PER DART QSI 005 4.3
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO26947

Purchase Order Date 1/6/2015

PO Print Date 1/6/2015

Page Number 1 of 2

Order From :

VC-SIE001

Ship To : DART AEROSPACE LTD

SIEG'S MANUFACTURING LTD.
6236 - 205 STREET
LANGLEY, BC V2Y 1N7
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 604 530 7455

Ship To Contact

Ship To Phone

Ship Via: FedEx Overnight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	D2646P AS PER DWG D2646 REV. C B127924	Aft Cap	1/21/2015 Yes 1/21/2015		25.00 Each	\$6.70	\$167.50
Line Total:							\$167.50
2	71401-45	PROCUREMENT QUALITY CLAUSES	1/21/2015 No 1/21/2015		1.00	\$0.00	\$0.00
Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A016 personnel qualification A017 raw material identification (as applicable) A026 certification of material conformance A041 quality management system A042 dart notification by supplier A043 retention of quality documents							

Note:

1/6/2015

Sieg's Manufacturing Ltd.

Quality Metal Spinning & Metal Fabricating
6236 205 Street, Langley, BC, Canada V2Y 1N7
Phone:(604)530 7455 Fax:(604)530-7490
www.siegsmf.com

Packing Slip

Packing Slip No.:

44983

Date:

01/29/2015

Page:

1

Sold to:	Ship to:
DART AEROSPACE LTD. 1270 ABERDEEN STREET HAWKESBURY, ONTARIO K6A 1K7	DART AEROSPACE LTD. 1270 ABERDEEN STREET HAWKESBURY, ONTARIO K6A 1K7
Order No.: 26947	Sold By: LOWEY, ARLA
Shipped By:	Ship Date: 01/29/2015
Tracking No.:	

Item No.	Unit	Description	Quantity
D2646	Each	Aft Cap	25
Sp15-02-2			
Comment:			



Sieg's Manufacturing Ltd.

6236 205 Street Langley, B.C. Canada V2Y 1N7

Ph#: (604)530-7455 fax#: (604)530-7490

arla@siegsnmfg.com

INSPECTION REPORT

Date: January 30, 2015

Customer: Dart Areospace

Packing Slip: 44983

Part#:	Quantity	Material	Check holes	Insp. By.
D2646	25 ✓	14g 1100	N/a	AL

SP15-02-2.

Notes:

Material Certification Attached: ____YES____

ThyssenKrupp Materials NA
Copper and Brass Sales Division



ThyssenKrupp Materials NA 19044 95A Avenue Surrey BC V4N 4P2

DELIVERY NOTE

SIEGS MANUFACTURING LTD.
6236 205 ST
LANGLEY BC V2Y 1N7



DATE: 01/06/2014
DOC. NO: 2402875712*
BOL. NO: 2402875712
ORDER NO: 1401788868
YOUR P/O: 1514
CUSTOMER NO: 10007550
Route: **B9MI5**
CONTACT: Timothy Skidmore
TEL: 800-926-2600
FAX: 888-926-2600
EMAIL: timothy.skidmore@thyssenkrupp.com

PST-1001-1682 OLD PST# R292133

We deliver at your own risk and account in accordance with our general delivery and payment terms.

ITEM	DESCRIPTION	NET QTY1 / QTY2	PACKAGE NO.
0010	ALFLR01243 1100 Aluminum - O Sheet 0.06300 X Width 48.0000 X Length 144 Nominal Chemistry/Act Physical Standard Packaging	100 PC 4,267.469 lb	1003901956 1003901957
TAGNUMBER QUANTITY UOM VENDOR VENDORPO HEAT/LOT PCS			
1003692716 74 PC SKANA ALU 5400197413 11A711 74			
ROHS COMPLIANT;ASTM B 209 2010			
1003793591 26 PC SKANA ALU 5400200310 11B224 26			
ROHS COMPLIANT;ASTM B 209 2010			

Total Gross Weight 4517.469 lb

All items, not declared as partial delivery, are final quantities.

Delivery Terms: PPD gem. Incoterms 2000 Prepaid

CERTIFICATION OF COMPLIANCE

We hereby certify that mercury or any of its compounds are not used in the processing and distribution of our products. The products we distribute are not hazardous in their received state.

For MSDS sheets go to www.copperandbrass.com. We hereby certify that the material above complies with the above specifications

John R Zambetti - Director of Quality Assurance

ThyssenKrupp Materials NA
Copper and Brass Sales Division
19044 95A Avenue
SURREY BC V4N 4P2
Tel.: +16048823493 Fax: +16048820696



Order number	Ord-pos	Del-pos	Part description
Customer PO	PO date	Quantity	Customer Part
MTR header	MTR type	Search criteria	Heat lot
			Sample number
C8A/1401788868	000020	900001	1100 Aluminum - O Sheet 0.06300 X Width
1514	12/18/2013	74 ST	
Att_001.PDF	NCAP	930230267220130003	11A711
C8A/1401788868	000020	900002	1100 Aluminum - O Sheet 0.06300 X Width
1514	12/18/2013	26 ST	
Att_002.PDF	NCAP	930235185120130004	11B224

Delivery number
2402875712
Date
12/19/2013

SIEGS MANUFACTURING LTD.
6236 205 ST
LANGLEY V2Y 1N7
CANADA



Skana Aluminum Co
Rolling Mill - Certified Metal
Certification of Properties and Analysis

Physical test: 11A711 Aluminum Alloy: 1100 Temper: -O- Thickness: .063

Tested For: Copper and Brass Sales

6156 PO No: 5400197413-R01

Chemical	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others	Al
Min Range	..		0.05	..	..	..	..	..	..		
Max Range	.95 Si	+Fe	0.20	0.05	..	..	..	0.1	..	0.05	

Coil Ref. No.	1	2	3	4	5						
Tensile Strength KSI	13.28	13.38	13.44	13.55	13.31						
Yield Strength KSI	4.34	4.25	4.46	4.58	4.47						
% Elong. in 2 in.	31.80	31.90	32.70	31.40	30.30						
Coil Ref. No.											
Tensile Strength KSI											
Yield Strength KSI											
% Elong. in 2 in.											
Coil Ref. No.											
Tensile Strength KSI											
Yield Strength KSI											
% Elong. in 2 in.											
Coil Ref. No.											
Tensile Strength KSI											
Yield Strength KSI											
% Elong. in 2 in.											

Remarks: Tested By: RJD

Certified Date: 10 Oct 2013

Certified By
Lab Manager

Anna Compton

RJD .063 X 48.000 MF 5/5

ITEM # ALFLR01243

MEETS/EXCEEDS ASTM B209-10 SPEC

BLANKS: COILS TO PRESSROOM

Thursday, October 10, 2013

Melted/Manufactured in USA

QF 824-1-1

Page 1 of 1

From: Copper and Brass Sales CA

Cust. SIEGS MANUFACTURING LTD.

Del.: 2402875712

CstAr

CstOr 1514

Wgt.: 3,157.927 LB

Date 12/19/2013

John R. Zambetti

Skana Aluminum Company

Rolling Mill - Certified Metal

Certification of Properties and Analysis

Physical test: **11A711** Aluminum Alloy: **1100** Temper: **-O-** Thickness: **.0630**
 Tested For: **Copper and Brass Sales** **6156** PO No: **5400197413-R01**

Chemical	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others	Al
Min Range	..		0.05	..	..	..	..	..	..		
Max Range	.95 Si	+ Fe	0.20	0.05	..	..	..	0.1	..	0.05	

1	13.28	4.34	31.80	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.17	.44	.10	.00	.00	.00	.00	.00	.01	.00

Al

99.20

2	13.38	4.25	31.90	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.17	.43	.10	.00	.00	.00	.00	.00	.01	.00

Al

99.20

3	13.44	4.46	32.70	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.17	.43	.10	.00	.00	.00	.00	.00	.01	.00

Al

99.20

4	13.55	4.58	31.40	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.17	.44	.10	.00	.00	.00	.00	.00	.01	.00

Al

99.20

5	13.31	4.47	30.30	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.17	.43	.10	.00	.00	.00	.00	.00	.01	.00

Al

99.20

Remarks: Tested By: **RJD** Certified Date: **10 Oct 2013** Certified By: *Kenna Hampton*
RJD .063 X 48.000 MF 5/5
ITEM # ALFLR01243
MEETS/EXCEEDS ASTM B209-10 SPEC
BLANKS: COILS TO PRESSROOM

Thu sday, October 10, 2013

Melted/Manufactured in USA QF 824-1-2

Page 1 of 2

From: Copper and Brass Sales CA

Cust. SIEGS MANUFACTURING LTD.

Del.: 2402875712

CstAr

CstOr 1514

Wgt.: 3,157.927 LB

Date 12/19/2013

John L. Zambetti

Skana Aluminum Company

Rolling Mill - Certified Metal

Certification of Properties and Analysis

Physical test: 11B224 Aluminum Alloy: 1100 Temper: -O- Thickness: .0630

Tested For: Copper and Brass Sales

6156

PO No: 5400200310-R01

Chemical	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others	Al
Min Range	..	..	0.05	..	..	..	..	..	..	..	..
Max Range	.95 Si	+ Fe	0.20	0.05	..	..	..	0.1	..	0.05	..

1	14.10	5.29	30.80	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.18	.43	.12	.02	.01	.00	.00	.00	.01	.00

Al

99.20

2	14.08	5.14	30.40	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.18	.43	.12	.02	.01	.00	.00	.00	.01	.00

Al

99.20

3	14.04	5.07	30.70	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.18	.43	.12	.02	.01	.00	.00	.00	.01	.00

Al

99.20

4	14.06	5.07	31.30	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.18	.43	.12	.02	.01	.00	.00	.00	.01	.00

Al

99.20

5	14.14	4.93	32.30	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.18	.43	.12	.02	.01	.00	.00	.00	.01	.00

Al

99.20

Remarks: Tested By: RJD

Certified Date: 21 Nov 2013

Certified By:
Lab Manager

John R. Zambetti

RJD .063 X 48.000 MF 5/5

ITEM # ALFLR01243

MEETS/EXCEEDS ASTM B209-10 SPEC

BLANKS: COILS TO PRESSROOM

Thursday, November 21, 2013

Melted/Manufactured In USA QF 824-1-2

Page 1 of 2

From: Copper and Brass Sales CA

Cust. SIEGS MANUFACTURING LTD.

Del.: 2402875712

CstAr

CstOr 1514

Wgt.: 1,109.542 LB

Date 12/19/2013

John R. Zambetti

COPPER AND BRASS SALES**MATERIAL TYPE****ALUMINIUM ALLOYS****PRODUCT DESIGNATION****1100 1350 3003 3004 3105 5005 5083 5086 5182 5454 6061 6063****"WARNING"**

SMALL CHIPS, FINE TURNINGS AND DUST MAY IGNITE READILY. EXPLOSIONPOTENTIAL MAY BE PRESENT WHEN:DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUMARE IN CONTACT WITH CERTAINMETAL OXIDES; OR, CHIPS, FINES, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE. KEEP AWAY FROM IGNITION SOURCE. USE EXPLOSION- PROOF VENTILATION. KEEP MATERIAL DRY.

INHALING LARGE AMOUNTS OF COPPER, MAGNESIUM OXIDE, MANGANESE OXIDE, AND ZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS. CHRONIC OVEREXPOUSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN; AND SKIN,TEETH,AND HAIR DISCOLORATION. CHRONIC OVEREXPOUSURE TO MANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE,SCARRING OF THE LUNGS AND REPRODUCTIVE HARM IN MALES.TARGET ORGAN IS PRIMARILY THE LUNG,BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER.CHRONIC OVEREXPOSURE TO TIN DUST OR IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS.CHRONIC OVEREXPOUSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS.

THIS PRODUCT ALSO CONTAINS LEAD AND CHROMIUM COMPOUNDS.LEAD IS KNOWN TO CAUSE REPRODUCTIVE TOXICITY AND IS A KNOWN CARCINOGEN.EXPOSURE TO CHROMIUM DUST OR FUME MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND KIDNEY AND LIVER DAMAGE.UNDER HIGH TEMPERATURES,HEXAVALENT CHROMIUM MAY BE PRODUCED,IF INTHE INSOLUBLE FORM,IT IS A CONFIRMED HUMAN CARCINOGEN. (CALIFORNIA PROPOSITION 65). IF COATED WITH OIL,MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT. WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.READ THE ALUMINUM/ALUMINUM ALLOYS MATERIAL SAFETY DATA SHEET(MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

* If processing or recycling produces particulate,use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding,grinding,abrasive sawing,sanding and polishing.Any activity which abrades the surface of this material can generate airborne particulate.Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.

* The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.

* A uminum, in solid form and as contained in finished products presents no special health risk.

* Sold for manufacturing purposes only.This product can be recycled; contact your sales representative.

The Occupational Safety and Health Administration require employers to provide training in the proper use of this product.

For additional information, call or write to Copper and Brass Sales,22355 West Eleven Mile Road, Southfield, MI 48033,telephone248-233-5600, or visit our web site @ www.copperandbrass.com.